

Title (en)

Apparatus for and method of polishing workpiece

Title (de)

Verfahren und Vorrichtung zum Polieren von Werkstücken

Title (fr)

Procédé et dispositif pour le polissage de pièces

Publication

**EP 1151824 A1 20011107 (EN)**

Application

**EP 01115108 A 19961009**

Priority

- EP 96116166 A 19961009
- JP 5405596 A 19960216
- JP 17173596 A 19960611

Abstract (en)

A polishing apparatus for polishing a workpiece such as a semiconductor wafer has a turntable with an abrasive cloth mounted on an upper surface thereof, and a top ring for holding a workpiece and pressing the workpiece against the abrasive cloth under a first pressing force to polish the workpiece. The top ring has a recess defined therein for accommodating the workpiece therein. A presser ring is vertically movably disposed around the top ring, and pressed against the abrasive cloth under a variable second pressing force. The first and second pressing forces are variable independently of each other, and the second pressing force is determined based on the first pressing force.

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IPC 8 full level

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CPC (source: EP KR US)

**B24B 37/30** (2013.01 - EP US); **B24B 37/32** (2013.01 - EP US); **H01L 21/304** (2013.01 - KR)

Citation (search report)

- [XA] EP 0548846 A1 19930630 - CYBEQ SYSTEMS [US]
- [E] EP 0747167 A2 19961211 - APPLIED MATERIALS INC [US]
- [E] US 5584751 A 19961217 - KOBAYASHI HIROYUKI [JP], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 006, no. 089 (M - 132) 27 May 1982 (1982-05-27)

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DE FR

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**EP 0790100 A1 19970820**; **EP 0790100 B1 20020109**; DE 69618437 D1 20020214; DE 69618437 T2 20020829; EP 1151824 A1 20011107; KR 100485002 B1 20050829; KR 980005771 A 19980330; US 5916412 A 19990629; US 6350346 B1 20020226

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